

Patent Abstracts of Japan

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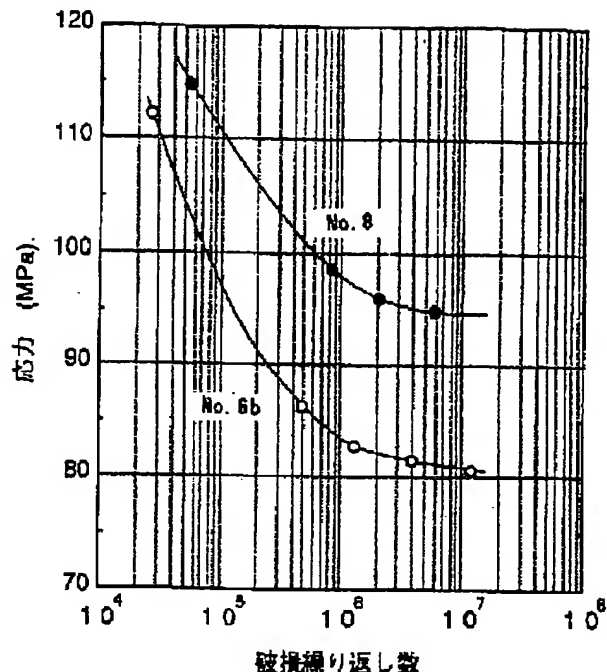
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APPLICANT : KAWASAKI STEEL CORP;

INVENTOR : YAMATO KOJI;

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TITLE : FERRITIC STAINLESS HOT ROLLED
STEEL SHEET EXCELLENT IN
SURFACE ROUGHENING
RESISTANCE AFTER FORMING AND
HIGH TEMPERATURE FATIGUE
CHARACTERISTIC



ABSTRACT : PROBLEM TO BE SOLVED: To produce a ferritic stainless hot rolled steel sheet good in surface roughening resistance after forming and high temp. fatigue characteristics and moreover free from deterioration in forming workability.

SOLUTION: This steel sheet has a componential compsn. contg., by weight, $\leq 0.03\%$ C, $\leq 2.0\%$ Si, $\leq 0.8\%$ Mn, $\leq 0.03\%$ S, 6 to 25% Cr, $\leq 0.03\%$ N, $\leq 0.3\%$ Al, $\leq 0.4\%$ Ti, 0.02 to 0.4% V, 0.0002 to 0.0050% B and $\leq 0.5\%$ Nb so as to satisfy $Ti/48 > N/14$, $Ti/48 + Nb/92 > N/14 + C/12$ and $V/B > 10$, and the balance Fe with inevitable impurities.

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